

HOLLER et al
Serial No. 09/332,050

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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (PREVIOUSLY PRESENTED) A telecommunication network comprising an asynchronous transfer mode (ATM) network, comprising:
 - means connected to the ATM network for identifying a telephone call which enters the ATM network at an entry port,
 - means for identifying an exit port in the ATM network through which the call is to exit, and
 - means for emulating a switch which provides synchronous transfer mode (STM) resources for a virtual STM connection, the STM connection being used for returning an address of the exit port to the entry port, or for forwarding an address of the entry port to the exit port, whereby the call can be switched directly through the ATM network.
2. (PREVIOUSLY PRESENTED) A network according to claim 1, further comprising:
 - means connected to the means for identifying the exit port and to an STM switch for emulating an STM connection to the STM switch.
3. (PREVIOUSLY PRESENTED) A network according to claim 1, further comprising means for establishing a new switched connection through the ATM network for each new telephone call by using ATM signalling.
4. (PREVIOUSLY PRESENTED) A method for setting up a voice connection in an asynchronous transfer mode (ATM) network, comprising the steps of:
 - identifying an entry port at which the connection enters the ATM network,

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- identifying an address of an exit port at which the connection is to exit from the ATM network,

- emulating a switch which provides synchronous transfer mode (STM) resources for a virtual STM connection, the STM connection being used for returning the address of the exit port to the entry port, or forwarding an address of the entry port to the exit port, whereby the entry port can direct voice traffic directly to the exit port only using the ATM switching in the ATM network.

5. (PREVIOUSLY PRESENTED) A method according to claim 4, wherein the connection through the ATM network is established using ATM signalling.

6. (PREVIOUSLY PRESENTED) A method according to claim 4, wherein information for call identification is sent together with the address in order to correlate the address with the voice connection.

7. (PREVIOUSLY PRESENTED) The switch emulator of claim 36, wherein the switch emulator emulates a STM connection to the narrowband switch and the bearer services network comprises an ATM network, and wherein the switch emulator comprises:

- means for storing path requests received from the narrowband switch,
- means for acknowledging paths requests to the narrowband switch, and
- means for associating an incoming port with an outgoing port.

8. (PREVIOUSLY PRESENTED) The switch emulator of claim 7, further comprising:
- means for contacting broadband terminals connected to the telecommunication network.

9. (PREVIOUSLY PRESENTED) The switch emulator of claim 8, further comprising:
- means for sending the address of one broadband terminal to another broadband terminal connected to the same network.

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10. (PREVIOUSLY PRESENTED) The switch emulator of claim 9, wherein the address sent is the ATM End System Address (AESAs).

11. (PREVIOUSLY PRESENTED) The switch emulator of claim 9, further comprising:

- means for sending call identification information for correlation to the address.

12. (PREVIOUSLY PRESENTED) The switch emulator of claim 7, further comprising:

- means for deciding if an already existing connection via the ATM network is to be used or if a new ATM connection is to be established.

13. (PREVIOUSLY PRESENTED) The switch emulator of claim 10, further comprising:

- means for sending call identification information for correlation to the address.

14. (PREVIOUSLY PRESENTED) A telecommunications network comprising a call services network and a bearer services network, comprising:

a narrowband switch in the call services network which, upon receipt of a call setup request for a call, makes a request for routing of the call setup request so that the call can be routed to a final destination;

plural switch emulators which, in response to the request for the routing of the call setup request, establish an emulated connection between a bearer services network entry port and a bearer services network exit port, the emulated connection being used for sending information to the bearer services network entry port so that a physical connection can be established through the bearer services network.

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15. (PREVIOUSLY PRESENTED) The telecommunications network of claim 14, wherein the bearer services network is an ATM network.

16. (PREVIOUSLY PRESENTED) The telecommunications network of claim 14, wherein traffic is switched through the bearer services network without having to be switched through the plural switch emulators.

17. (PREVIOUSLY PRESENTED) The telecommunications network of claim 14, wherein the bearer services network is divided into plural switching domains, and wherein each of the plural switching domains is equipped with one of the plural switch emulators.

18. (PREVIOUSLY PRESENTED) The telecommunications network of claim 14, wherein the plural switch emulators are provided in the bearer services network.

19. (PREVIOUSLY PRESENTED) The telecommunications network of claim 14, further comprising narrowband terminals involved in the call, and wherein call control procedures of the call services network are carried transparently between the narrowband terminals in the call services network through the bearer services network.

20. (PREVIOUSLY PRESENTED) The telecommunications network of claim 14, further comprising a first broadband terminal and a second broadband terminal, and wherein the bearer services network entry port is a port of the first broadband terminal and the bearer services network exit port is a port of the second broadband terminal.

21. (PREVIOUSLY PRESENTED) The telecommunications network of claim 20, wherein the bearer services network is an ATM network, and wherein the first broadband terminal and the second broadband terminal handle interworking of voice transport circuits to ATM transport.

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22. (PREVIOUSLY PRESENTED) The telecommunications network of claim 14, wherein the call services network is a synchronous transport mode (STM) network.

23. (PREVIOUSLY PRESENTED) The telecommunications network of claim 14, wherein the emulated connection is used for sending an address of the bearer services network exit port to the bearer services network entry port, or for sending the address of the bearer services network entry port to the bearer services network exit port, so that the physical connection can be established through the bearer services network.

24. (PREVIOUSLY PRESENTED) A telecommunications network comprising a call services network and a bearer services network, comprising:

plural narrowband switches provided in the call services network;

a logical unit connected between the plural narrowband switches and the bearer services network, the logical unit emulating a virtual connection provided to the narrowband switches, the logical unit also returning over the virtual connection, to a bearer services network entry port, information so that a physical connection can be established through the bearer services network.

25. (PREVIOUSLY PRESENTED) The telecommunications network of claim 24, wherein the logical unit identifies an address of the bearer services network exit port.

26. (PREVIOUSLY PRESENTED) The telecommunications network of claim 24, wherein the information is an address of the bearer services network exit port or an address of the bearer services network entry port.

27. (PREVIOUSLY PRESENTED) The telecommunications network of claim 24, wherein the bearer services network is an ATM network.

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28. (PREVIOUSLY PRESENTED) The telecommunications network of claim 24, wherein traffic is switched through the bearer services network without having to be switched through the plural switch emulators.

29. (PREVIOUSLY PRESENTED) The telecommunications network of claim 24, wherein the bearer services network is divided into plural switching domains, and wherein each of the plural switching domains is equipped with one of the plural switch emulators.

30. (PREVIOUSLY PRESENTED) The telecommunications network of claim 24, wherein the plural switch emulators are provided in the bearer services network.

31. (PREVIOUSLY PRESENTED) The telecommunications network of claim 24, further comprising narrowband terminals involved in a call, and wherein call control procedures of the call services network are carried transparently between the narrowband terminals in the call services network through the bearer services network.

32. (PREVIOUSLY PRESENTED) The telecommunications network of claim 24, further comprising a first broadband terminal and a second broadband terminal, and wherein the bearer services network entry port is a port of the first broadband terminal and the bearer services network exit port is a port of the second broadband terminal.

33. (PREVIOUSLY PRESENTED) The telecommunications network of claim 31, wherein the bearer services network is an ATM network, and wherein the first broadband terminal and the second broadband terminal handle interworking of voice transport circuits to ATM transport.

34. (PREVIOUSLY PRESENTED) The telecommunications network of claim 24, wherein the call services network is a synchronous transport mode (STM) network.

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35. (PREVIOUSLY PRESENTED) The telecommunications network of claim 24, wherein the emulated connection is used for sending an address of the bearer services network exit port to the bearer services network entry port, or for sending the address of the bearer services network entry port to the bearer services network exit port, so that the physical connection can be established through the bearer services network.

36. (PREVIOUSLY PRESENTED) A switch emulator which seizes a virtual trunk for establishing an emulated connection between a bearer services network entry port and a bearer services network exit port, the virtual trunk being seized by the switch emulator in response to a request issued by a narrowband switch in the call services network upon receipt of a call setup message, the emulated connection being used for sending information to the bearer services network entry port so that a physical connection can be established through the bearer services network.

37. (PREVIOUSLY PRESENTED) The telecommunications network of claim 14, wherein the narrowband switch requests a trunk for routing of the call setup request towards the final destination, and the plural switch emulators intercept the call setup request and seize plural virtual trunks to establish the emulated connection.

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PLEASE ADD NEW CLAIMS 38 - 52 AS FOLLOWS:

38. (New) A telecommunications network having a call services domain and a bearer services domain, the network comprising:
a narrowband node in the call services domain;
an Asynchronous Transfer Mode (ATM) network in the bearer services domain;
a logic unit, connected to the narrowband node, which emulates and controls resources required by a narrowband call setup procedure and which sets up a virtual connection in the call services domain, but which uses the ATM network rather than the virtual connection to establish a physical connection for voice transport in the bearer services domain.

39. (New) The telecommunications network of claim 38, wherein the logic unit is co-located with a corresponding narrowband node.

40. (New) The telecommunications network of claim 38, wherein the narrowband node is a Synchronous Transfer Mode (STM) mode.

41. (New) The telecommunications network of claim 38, wherein the logic unit controls accesses and trunks between other logic units.

42. (New) The telecommunications network of claim 38, wherein the logic unit emulates a narrowband switch.

43. (New) The telecommunications network of claim 38, wherein value added services are invoked in the call services domain.

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44. (New) The telecommunications network of claim 38, wherein call setup routing is performed in the call services domain, and subsequently the physical connection for voice transport is requested through the bearer services domain.

45. (New) The telecommunications network of claim 38, wherein call setup routing and setup of the physical connection for voice transport through the bearer services domain are initialized essentially simultaneously.

46. (New) The telecommunications network of claim 38, wherein the virtual connection is utilized to return an address of an exit port of the ATM network to an entry port of the ATM network, or to forward an address of the entry port to the exit port, whereby the call can be switched directly through the ATM network.

47. (New) The telecommunications network of claim 38, wherein the logic unit uses information from the narrowband node to identify an exit port from the ATM network to which a call is to be switched through the ATM network.

48. (New) The telecommunications network of claim 38, wherein the logic unit does not control switching of the call through the ATM network.

49. (New) The telecommunications network of claim 1, wherein the means for emulating does not control switching of the call through the ATM network.

50. (New) The telecommunications network of claim 14, wherein the plural switch emulators do not control switching of the call through the bearer services network.

51. (New) The telecommunications network of claim 24, wherein the logical unit does not control switching of the call through the bearer services network.

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52. (New) The telecommunications network of claim 36, wherein the switch emulator does not control switching of the call through the bearer services network.